

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P291528

Luminaire Tested: **14GR-LD5-43-A19/156-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A19/156-UNV-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3324.0 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

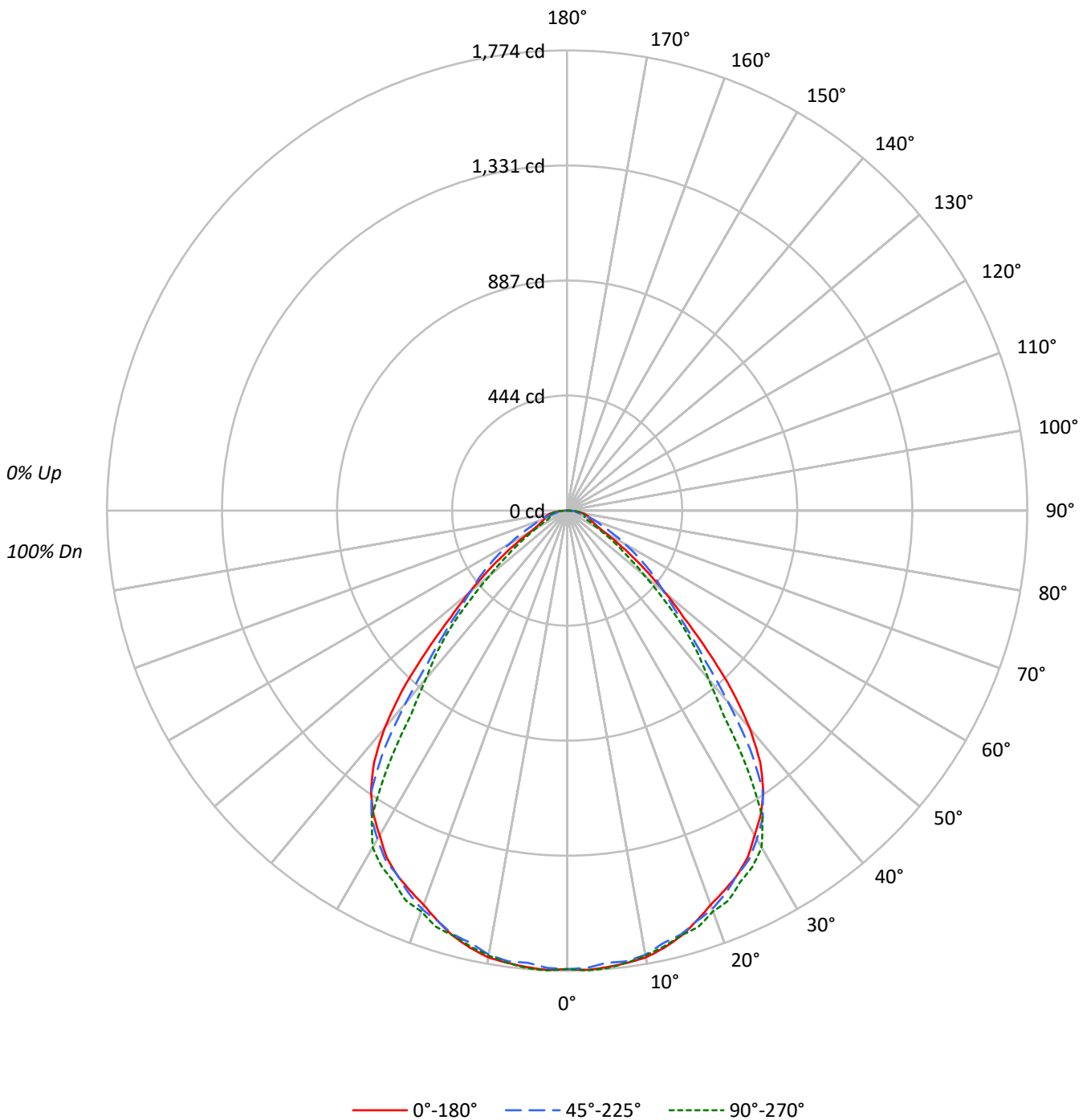
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77					77			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68					68			
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61					61			
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54					54			
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49					49			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44					44			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40					40			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37					37			
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4757	4757	4757
5°	4773	4727	4783
10°	4780	4751	4759
15°	4731	4714	4725
20°	4633	4683	4709
25°	4604	4602	4690
30°	4492	4547	4658
35°	4332	4314	3964
40°	3846	3394	2972
45°	2919	2539	2403
50°	2071	2033	1631
55°	1417	1735	1121
60°	876	1384	749
65°	722	1066	543
70°	718	928	557
75°	862	664	743
80°	990	614	931
85°	939	1081	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	5.0
10°-20°	478.7	14.4
20°-30°	719.9	21.7
30°-40°	784.8	23.6
40°-50°	549.5	16.5
50°-60°	311.0	9.4
60°-70°	170.2	5.1
70°-80°	103.1	3.1
80°-90°	39.1	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1366.3	41.1
0°-40°	2151.0	64.7
0°-60°	3011.6	90.6
0°-90°	3324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3324.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1768	1768	1768	1768	1768	
5°	1767	1764	1750	1771	1771	168
15°	1698	1694	1692	1717	1696	478
25°	1551	1554	1550	1586	1580	712
35°	1319	1313	1313	1246	1207	812
45°	767	800	667	659	632	596
55°	302	361	370	367	239	276
65°	113	186	167	212	85	116
75°	83	120	64	126	72	86
85°	30	50	35	43	34	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1767.6	1767.6	1767.6	1767.6	1767.6
2.5°	1772.1	1769.9	1764.5	1775.2	1774.4
5°	1766.8	1763.8	1750.1	1770.6	1770.6
7.5°	1759.2	1751.6	1752.4	1763.8	1758.4
10°	1749.3	1736.4	1738.7	1741.7	1741.7
12.5°	1726.5	1714.3	1708.2	1718.1	1721.2
15°	1698.3	1693.8	1692.2	1716.6	1696.0
17.5°	1658.8	1668.7	1659.5	1679.3	1682.4
20°	1617.7	1636.7	1635.2	1648.9	1644.3
22.5°	1584.2	1596.4	1596.4	1613.1	1626.8
25°	1550.7	1553.8	1550.0	1585.7	1579.6
27.5°	1507.3	1505.1	1517.2	1535.5	1547.7
30°	1445.7	1446.5	1463.2	1487.6	1499.0
32.5°	1389.4	1382.6	1403.1	1413.8	1401.6
35°	1318.6	1312.6	1313.3	1246.4	1206.8
37.5°	1222.0	1227.3	1157.3	1034.8	983.1
40°	1094.9	1105.6	966.3	875.0	846.1
42.5°	941.2	944.3	792.1	762.4	743.4
45°	767.0	800.5	667.3	658.9	631.5
47.5°	608.0	670.4	559.3	564.6	499.2
50°	494.6	557.0	485.5	487.7	389.6
52.5°	391.1	452.0	428.4	421.5	305.9
55°	302.1	361.4	369.8	366.8	238.9
57.5°	222.2	286.1	310.4	321.9	184.1
60°	162.8	233.6	257.2	280.0	139.2
62.5°	129.4	202.4	210.8	244.2	108.0
65°	113.4	186.4	167.4	211.5	85.2
67.5°	101.2	177.3	136.2	187.2	74.6
70°	91.3	159.8	117.9	167.4	70.8
72.5°	91.3	140.0	92.8	148.4	71.5
75°	82.9	119.5	63.9	125.5	71.5
77.5°	73.8	102.0	47.9	102.0	67.0
80°	63.9	79.9	39.6	78.4	60.1
82.5°	47.2	60.1	34.2	58.6	48.7
85°	30.4	49.5	35.0	42.6	34.2
87.5°	14.5	25.1	22.1	21.3	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)